THE MERCK INDEX

AN ENCYCLOPEDIA OF
CHEMICALS, DRUGS, AND BIOLOGICALS

THIRTEENTH EDITION

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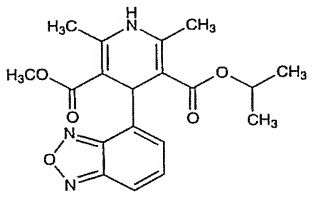
angina and coronary artery disease: C. E. Handler, E. Sowton, *ibid.* **27,** 415 (1984); in hypertension: E. B. Nelson *et al., Clin. Pharmacol. Ther.* **40,** 694 (1986). Comparison of hemodynamic effects of enantiomers: R. P. Hof *et al., J. Cardiovasc. Pharmacol.* **8,** 221 (1986). Series of articles on pharmacology and clinical use: *Am. J. Med.* **86,** 1-146 (1989).



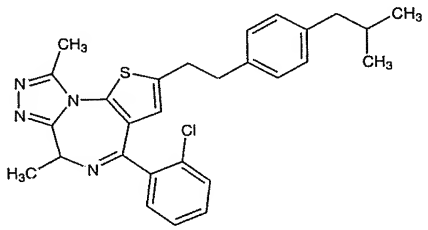
mp 168-170°.

***S*(+)-Form.** PN-205-033. Crystals from ether + hexane, mp 142°. $[\alpha]_D^{20}$ +6.7° (c = 1.5 in ethanol).

***R*(−)-Form.** PN-205-034. Crystals from ether + hexane, mp 140°. $[\alpha]_D^{20}$ −6.7° (c = 1.67 in ethanol).

THERAP CAT: Antihypertensive; antianginal.

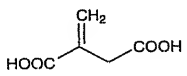
5263. Israpafant. [117279-73-9] 4-(2-Chlorophenyl)-6,-9-dimethyl-2-[2-[4-(2-methylpropyl)phenyl]ethyl]-6*H*-thieno-[3,2-*f*][1,2,4]triazolo[4,3-*a*][1,4]diazepine; (±)-4-(*o*-chlorophenyl)-2-(*p*-isobutylphenethyl)-6,9-dimethyl-6*H*-thieno[3,2-*f*]-*s*-triazolo[4,3-*a*][1,4]diazepine; Y-24180; Pafnol. $C_{28}H_{29}ClN_4S$; mol wt 489.09. C 68.76%, H 5.98%, Cl 7.25%, N 11.46%, S 6.56%. Platelet activating factor (PAF) antagonist. Prepn: T. Tahara *et al.,* **EP 268242**; *eidem,* **US 4820703** (1988, 1989 both to Yoshitomi). Pharmacology: M. Terasawa *et al., Prostaglandins* **40,** 553 (1990). Receptor binding study: S. Takehara *et al., ibid.* 571. Clinical evaluation in asthma: S. Hozawa *et al., Am. J. Respir. Crit. Care Med.* **152,** 1198 (1995).



Colorless crystals from isopropyl ether, mp 129.5-131.5°. Sol in propylene glycol.

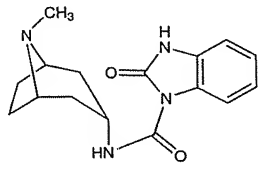
THERAP CAT: Antiasthmatic.

5264. Itaconic Acid. [97-65-4] Methylenesuccinic acid; propylenedicarboxylic acid. $C_5H_6O_4$; mol wt 130.10. C 46.16%, H 4.65%, O 49.19%. Obtained by dry distillation of citric acid and subsequent treatment of the anhydride with water. Produced on a large scale by submerged aerobic fermentation using *Aspergillus terreus* and low cost carbohydrates from beet or cane: Kane *et al.,* **US 2385283** (1945 to Pfizer). Synthesis from propargyl chloride, carbon monoxide, nickel carbonyl and water: Chiusoli, **US 3025320** (1962 to Montecatini).



Hygroscopic crystals; characteristic odor. d 1.63. mp 162-164° with decompn. Also reported as mp 172° [Kinoshita, *Acta Phytochem. (Japan)* **5,** 273 (1931)]. One gram dissolves in 12 ml water, 5 ml alcohol; very slightly sol in benzene, chloroform, ether, carbon disulfide, petr ether. *Keep well closed.*

5265. Itasetron. [123258-84-4] 2,3-Dihydro-*N*-[(3-*endo*)-8-methyl-8-azabicyclo[3.2.1]oct-3-yl]-2-oxo-1*H*-benzimidazole-1-carboxamide; 2-oxo-*N*-1α*H*,5α*H*-tropan-3α-yl-1-benzimidazoline-1-carboxamide. $C_{16}H_{20}N_4O_2$; mol wt 300.35. C 63.98%, H 6.71%, N 18.65%, O 10.65%. Serotonin (5-HT_3) receptor antagonist. Prepn: M. Turconi *et al.,* **EP 309423** (1989 to Istituto De Angeli); *eidem,* **US 5223511** (1993 to Boehringer, Ing.); M. Turconi *et al., J. Med. Chem.* **33,** 2101 (1990). Pharmacology: *idem et al., Eur. J. Pharmacol.* **203,** 203 (1991). Mode of action: M. B. Passani *et al., Brit. J. Pharmacol.* **112,** 695 (1994). Clinical efficacy and tolerability: H. Goldschmidt *et al., Anti-Cancer Drugs* **8,** 436 (1997). Review of therapeutic potential: M. B. Passani, R. Corradetti, *CNS Drug Reviews* **2,** 195-213 (1996).

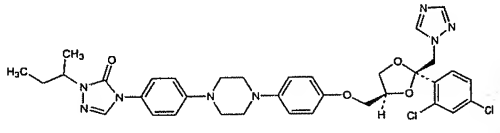


Crystals from acetonitrile, mp 205-207°. LD_{50} in mice, rats (mg/kg): 56, 62 i.v. (Passani).

Hydrochloride. [127618-28-4] DAU 6215. $C_{16}H_{20}N_4O_2$.HCl; mol wt 336.82. Colorless crystals, mp 270°.

THERAP CAT: Antiemetic.

5266. Itraconazole. [84625-61-6] 4-[4-[4-[4-[[2-(2,4-Dichlorophenyl)-2-(1*H*-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy]phenyl]-1-piperazinyl]phenyl]-2,4-dihydro-2-(1-methylpropyl)-3*H*-1,2,4-triazol-3-one; (±)-1-*sec*-butyl-4-[*p*-[4-[*p*-[[(2*R**,4*S**)-2-(2,4-dichlorophenyl)-2-(1*H*-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy]phenyl]-1-piperazinyl]phenyl]-Δ²-1,2,4-triazolin-5-one; oriconazole; R-51211; Itrizole; Sporanox; Triasporin. $C_{35}H_{38}Cl_2N_8O_4$; mol wt 705.65. C 59.57%, H 5.43%, Cl 10.05%, N 15.88%, O 9.07%. Orally active antimycotic structurally related to ketoconazole, *q.v.* Prepn: J. Heeres, L. J. J. Backx, **EP 6711**; *eidem,* **US 4267179** (1980, 1981 both to Janssen); J. Heeres *et al., J. Med. Chem.* **27,** 894 (1984). *In vitro* activity: A. Espinel-Ingroff *et al., Antimicrob. Ag. Chemother.* **26,** 5 (1984). HPLC determn in biological samples: R. Woestenborghs *et al., J. Chromatog.* **413,** 332 (1987). Symposium on pharmacology and clinical efficacy: *Rev. Infect. Dis.* **9,** Suppl 1, S1-S152 (1987). Toxicity data: H. Van Cauteren *et al., ibid.* S43. Review of clinical pharmacokinetics: J. Heykants *et al., Mycoses* **32,** Suppl 1, 67-87 (1989); of clinical efficacy in dermatophytosis: P. De Doncker, G. Cauwenbergh, *Brit. J. Clin. Pract.* **Suppl. 71,** 118-122 (1990). *Review:* A. M. Sugar, *Curr. Clin. Topics Inf. Dis.* **13,** 74-98 (1993).



Crystals from toluene, mp 166.2°. pKa 3.7. Lipophilic; partition coefficient (*n*-octanol/aq buffer of pH 8.1): 5.66. Practically insol in water and dil acidic solns. LD_{50} (14 day) in mice, rats, dogs (mg/kg): >320, >320, >200 orally (Van Cauteren).

THERAP CAT: Antifungal.

5267. Itramin Tosylate. [13445-63-1] 2-Aminoethanol nitrate mono(4-methylbenzenesulfonate); 2-aminoethanol nitrate mono-*p*-toluenesulfonate; 2-nitratoethylaminotoluene-*p*-sulfonate; Cardisan; Tostram; Nilatil. $C_9H_{14}N_2O_6S$; mol wt 278.28. C 38.85%, H 5.07%, N 10.07%, O 34.50%, S 11.52%. Prepn: **SE 168308** (1959 to Aktiebolaget Pharmacia), *C.A.* **54,** 24405d (1960).

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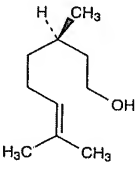
α-citronellal. [141-26-4] 3,7-Dimethyl-7-octenal; rhodinal. Liquid. bp_{14} 51°. n_D^{20} 1.4410. $[\alpha]_D^{20}$ +9.75°.
USE: In soap perfumes; insect repellent.

2354. β-Citronellol. [106-22-9] 3,7-Dimethyl-6-octen-1-ol; 2,6-dimethyl-2-octen-8-ol; citronellol; cephrol. $C_{10}H_{20}O$; mol wt 156.26. C 76.86%, H 12.90%, O 10.24%. *l*-Form is a constituent of rose and geranium oils. *d*-Form occurs in Ceylon and Java citronella oils. History: J. L. Simonsen, L. N. Owen, *The Terpenes* **vol. I** (University Press, Cambridge, 2nd ed, 1947). Prepn of (±)-form: Adams, Garvey, *J. Am. Chem. Soc.* **48,** 477 (1926); Ofner *et al., Helv. Chim. Acta* **42,** 2577 (1959). Prepn of (+)-form: Rienäcker, Ohloff, *Angew. Chem.* **73,** 240 (1961); Naves, Tullen, *Helv. Chim. Acta* **44,** 1867 (1961); Eschinazi, *J. Org. Chem.* **26,** 3072 (1961); Rienäcker, *Chimia* **27,** 97 (1973); C. G. Overberger, J. L. Weise, *J. Am. Chem. Soc.* **90,** 3525 (1968); T. Sato *et al., Tetrahedron Letters* **1980,** 3377. Prepn of (−)-form: Ohloff, *loc. cit.;* Rienäcker, *loc. cit.;* Shono *et al., Tetrahedron Letters* **1974,** 1295; K. Mori, T. Sugai, *Synthesis* **1982,** 752. Synthesis of (+) or (−)-form from isoprene: Hidai *et al., Chem. Commun.* **1975,** 170. Stereospecific prepn via microbiological *(Saccharomyces cerevisiae)* reduction: P. Gramatica *et al., Experientia* **38,** 775 (1982). Manuf: Woroch *et al.;* Bain; Webb, **US 2990422**; **US 3005845**; **US 3028431** (1961, 1961, 1962, all to Glidden); Eschinasi, **US 3052730** (1962 to Givaudan). Abs config of the (+)-form: Freudenberg, Hohmann, *Ann.* **584,** 54 (1953); Freudenberg, Lwowski, *ibid.* **587,** 213 (1954). NMR, HPLC determn of *R/S* enantiomer ratios: D. Valentine *et al., J. Org. Chem.* **41,** 62 (1976). *See also* Rhodinol.



R-(+)-β-Citronellol

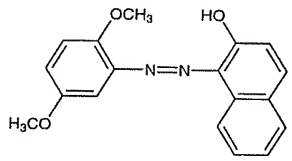
(+)-Form. Oily liquid, bp 224.5°, bp_{10} 108.4°, d_4^{20} 0.8550. n_D^{20} 1.4559. $[\alpha]_D^{20}$ +5.22°. Very slightly sol in water, miscible with with alcohol, ether.
(−)-Form. β-Rhodinol; Levocitrol. bp_{10} 108-109°. d_4^{18} 1.4576. $[\alpha]_D^{20}$ −4.76°.
(±)-Form. Dihydrogeraniol. $d_4^{23.5}$ 0.851. $n_D^{23.5}$ 1.454.
USE: In perfumery.

2355. Citrulline. [372-75-8] N^5-(Aminocarbonyl)-L-ornithine; δ-ureidonorvaline; α-amino-δ-ureidovaleric acid; N^5-carbamylornithine. $C_6H_{13}N_3O_3$; mol wt 175.19. C 41.13%, H 7.48%, N 23.99%, O 27.40%. $H_2NCONH(CH_2)_3CH(NH_2)$-COOH. An amino acid, first isolated from the juice of watermelon, *Citrullus vulgaris* Schrad., *Cucurbitaceae:* Wada, *Biochem. Z.* **224,** 420 (1930); isoln from casein: Wada, *ibid.* **257,** 1 (1933). Synthesis from ornithine through copper complexes: Kurtz, *J. Biol. Chem.* **122,** 477 (1938); by alkaline hydrolysis of arginine: Fox, *ibid.* **123,** 687 (1938); from cyclopentanone oxime: Fox *et al., J. Org. Chem.* **6,** 410 (1941). Crystallization: Matsuda *et al.,* **JP 71 174** (1971 to Ajinomoto), *C.A.* **74,** 126056u (1971). Crystal and molecular structure: Naganathan, Venkatesan, *Acta Crystallogr.* **27B,** 1079 (1971); Ashida *et al., ibid.* **28B,** 1367 (1972). Use in asthenia and hepatic insufficiency: **FR 2198739** (1974 to Hublot & Vallet), *C.A.* **82,** 144952c (1975). Clinical trial in treatment of lysinuric protein intolerance: J. Rajantie *et al., J. Pediatr.* **97,** 927 (1980); T. O. Carpenter *et al., N. Engl. J. Med.* **312,** 290 (1985).
Prisms from methanol + water, mp 222°. $[\alpha]_D^{20}$ +3.7° (c = 2). pK_1 2.43; pK_2 9.41. Sol in water. Insol in methanol, ethanol.
Hydrochloride. [34312-10-2] $C_6H_{13}N_3O_3$ HCl. Crystals, dec 185°. $[\alpha]_D^{22}$ +17.9° (c = 2).

Malate (salt). [54940-97-5] Stimol. $C_6H_{13}N_3O_3.C_4H_6O_5$; mol wt 309.27.
THERAP CAT: Treatment of asthenia.

2356. Citrullol. [1390-93-8] $C_{22}H_{38}O_4$; mol wt 366.53. C 72.09%, H 10.45%, O 17.46%. From fruit pulp of *Citrullus colocynthis* Schrad., *Cucurbitaceae:* Power, Moore, *J. Chem. Soc.* **97,** 99 (1910); Power, Salway, *ibid.* **103,** 399, 1022 (1913); Khadem, Rahman, *Tetrahedron Letters* **1962,** 1137.
Crystals, mp 282-283°. uv max: 242, 272, 282 nm (log ε 2.85, 2.68, 2.68). Sol in pyridine; practically insol in usual organic solvents.
Diacetate. $C_{26}H_{42}O_6$. Crystals, mp 162°.

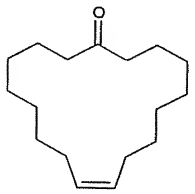
2357. Citrus Red 2. [6358-53-8] 1-[(2,5-Dimethoxyphenyl)azo]-2-naphthalenol; C.I. Solvent Red 80; C.I. 12156. $C_{18}H_{16}N_2O_3$; mol wt 308.33. C 70.12%, H 5.23%, N 9.09%, O 15.57%. Prepn: H. W. Elley, H. W. Daudt, **US 2224904** (1940 to Du Pont). Metabolism: J. L. Radomski, *J. Pharmacol. Exp. Ther.* **134,** 100 (1961); **136,** 378 (1962). Toxicology: M. Sharratt *et al., Food Cosmet. Toxicol.* **4,** 493 (1966). Review of carcinogenicity studies: *IARC Monographs* **8,** 101-106. *See also Colour Index* **vol. 4** (3rd ed., 1971) p 4033.



Crystals, mp 155-157°. Slightly sol in water; partially sol in ethanol and vegetable oils.
USE: To color orange skins.

2358. Civet. Zibeth. Unctuous secretion from receptacles between the anus and genitalia of both male and female civet cat. *Constit.* Civetone and similar compds.
Semi-solid, yellowish to brown unctuous substance; unpleasant, subacrid, bitter taste; fusible and burns without leaving much residue. Insol in water; partly sol in hot alcohol or in ether.
USE: As a fixative in perfumery.

2359. Civetone. [542-46-1] (*Z*)-9-Cycloheptadecen-1-one. $C_{17}H_{30}O$; mol wt 250.42. C 81.54%, H 12.07%, O 6.39%. 17-Membered macrocyclic musk, constituent of civet: Ruzicka, *Helv. Chim. Acta* **9,** 230 (1926); Ruzicka *et al., ibid.* **10,** 695 (1927). Occurs in nature as *cis*-form. Synthesis of *cis*-civetone: Stoll *et al., ibid.* **31,** 543 (1948); J. Tsuji, T. Mondai, *Tetrahedron Letters* **1977,** 3285; E. Seoane *et al., Chem. & Ind. (London)* **1978,** 165. Synthesis of *trans*-form: H. Hunsdiecker, *Ber.* **77,** 185 (1944); H. H. Mathur, S. C. Bhattacharyya, *J. Chem. Soc.* **1968,** 114. Crystal and molecular structure of *cis*-civetone: G. Bernardinelli, R. Gerdil, *Helv. Chim. Acta* **65,** 558 (1982).

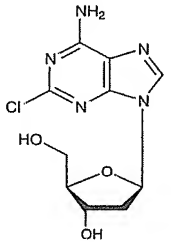


(cis)-form

Crystals, mp 31-32°. Musky odor becoming pleasant in extreme dilns. d_4^{33} 0.917. bp_{742} 342°; bp_2 59°. $n_D^{33.4}$ 1.4830.
USE: In perfumery.

2360. Cladribine. [4291-63-8] 2-Chloro-2′-deoxyadenosine; 2-chloro-6-amino-9-(2-deoxy-β-D-*erythro*-pentofuran-

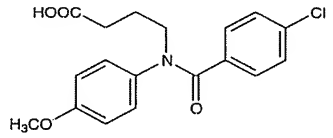
osyl)purine; 2-chlorodeoxyadenosine; 2-CdA; CldAdo; NSC-105014-F; Leustatin. $C_{10}H_{12}ClN_5O_3$; mol wt 285.69. C 42.04%, H 4.23%, Cl 12.41%, N 24.51%, O 16.80%. Substituted purine nucleoside with antileukemic activity. Prepn as intermediate in synthesis of 2-deoxynucleosides: H. Venner, *Ber.* **93,** 140 (1960); M. Ikehara, H. Tada, *J. Am. Chem. Soc.* **85,** 2344 (1963); *eidem, ibid.* **87,** 606 (1965). Synthesis and biological activity: L. F. Christensen *et al., J. Med. Chem.* **15,** 735 (1972). Stereospecific synthesis: Z. Kazimierczuk *et al., J. Am. Chem. Soc.* **106,** 6379 (1984); R. K. Robins, G. R. Revankar, **EP 173059**; *eidem,* **US 4760137** (1986, 1988 both to Brigham Young Univ.). Specific toxicity to lymphocytes: D. A. Carson *et al., Proc. Nat. Acad. Sci. USA* **77,** 6865 (1980); *eidem, Blood* **62,** 737 (1983). Mechanism of action: S. Seto *et al., J. Clin. Invest.* **75,** 377 (1985). Clinical evaluation in chronic lymphocytic leukemia: L. D. Piro *et al., Blood* **72,** 1069 (1988); in hairy cell leukemia: *eidem, N. Engl. J. Med.* **322,** 1117 (1990).



Crystals from water, softens at 210-215°, solidifies and turns brown (Christensen). Also reported as crystals from ethanol, mp 220° (softens), resolidifies, turns brown and does not melt below 300° (Kazimierczuk). $[\alpha]_D^{25}$ −18.8° (c = 1 in DMF). uv max in 0.1*N* NaOH: 265 nm; in 0.1*N* HCl: 265 nm.

THERAP CAT: Antineoplastic.

2361. Clanobutin. [30544-61-7] 4-[(4-Chlorobenzoyl)-(4-methoxyphenyl)amino]butanoic acid; 4-[*p*-chloro-*N*-(*p*-methoxyphenyl)benzamido]butyric acid; *N*-(*p*-chlorobenzoyl)-γ-(*p*-anisidino)butyric acid; Bykahepar. $C_{18}H_{18}ClNO_4$; mol wt 347.80. C 62.16%, H 5.22%, Cl 10.19%, N 4.03%, O 18.40%. Prepn: K. Klemm *et al.,* **DE 1917036** corresp to **US 3780095** (1971, 1973 both to Byk-Gulden). Series of articles on synthesis, physical and pharmacological properties: *Arzneimittel-Forsch.* **29,** 1-15 (1979). *In vitro* biochemical study: H. Wolf *et al., Biochem. Pharmacol.* **29,** 1649 (1980). Effect on bile excretion in rats, dogs: P. Berchtold *et al., Arzneimittel-Forsch.* **30,** 1878 (1980).

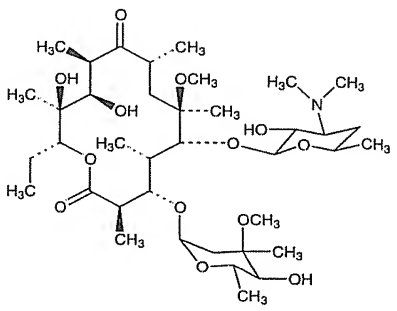


Cryst from ethyl acetate, mp 115-116°. pKa 5.04. Soly in water at 37°: 4.02×10^{-2} mol/l at pH 7. LD_{50} in rats (mg/kg): >2000 orally; 570 i.v. (Klemm).

THERAP CAT: Choleretic.

THERAP CAT (VET): Choleretic; in treatment of piroplasmosis and anaplasmosis.

2362. Clarithromycin. [81103-11-9] 6-*O*-Methylerythromycin; A-56268; TE-031; Biaxin; Clathromycin; Cyllind; Klacid; Klaricid; Macladin; Naxy; Veclam; Zeclar. $C_{38}H_{69}NO_{13}$; mol wt 747.95. C 61.02%, H 9.30%, N 1.87%, O 27.81%. Semisynthetic macrolide antibiotic; derivative of erythromycin, *q.v.* Prepn: Y. Watanabe *et al.,* **EP 41355**; *eidem,* **US 4331803** (1981, 1982 both to Taisho); and *in vitro* antibacterial activity: S. Morimoto *et al., J. Antibiot.* **37,** 187 (1984). *In vitro* and *in vivo* antibacterial activity: P. B. Fernandes *et al., Antimicrob. Ag. Chemother.* **30,** 865 (1986). Comparative antibacterial spectrum *in vitro:* C. Benson *et al., Eur. J. Clin. Microbiol.* **6,** 173 (1987); H. M. Wexler, S. M. Finegold, *ibid.* 492. HPLC determn in biological fluids: D. Croteau *et al., J. Chromatog.* **419,** 205 (1987). Acute toxicity study: S. Abe *et al., Chemotherapy (Tokyo)* **36,** Suppl. 3, 274 (1988). Symposium on pharmacology and comparative clinical studies: *J. Antimicrob. Chemother.* **27,** Suppl. A, 1-124 (1991). Comprehensive description: I. I. Salem, *Anal. Profiles Drug Subs. Excip.,* **24,** 45-85, (1996).



Colorless needles from chloroform + diisopropyl ether (1:2), mp 217-220° (dec). Also reported as crystals from ethanol, mp 222-225° (Morimoto). uv max ($CHCl_3$): 288 nm (ε 27.9). uv max ($CHCl_3$): 240, 288 nm; (methanol): 211, 288 nm. $[\alpha]_D^{24}$ −90.4° (c = 1 in $CHCl_3$). Stable at acidic pH. LD_{50} in male, female mice, male, female rats (mg/kg): 2740, 2700, 3470, 2700 orally, 1030, 850, 669, 753 i.p., >5000 all s.c. (Abe).

THERAP CAT: Antibacterial.

2363. Clathrates. Compounds that are capable of trapping other substances within their own crystal lattices. The cavities of the host molecules are classified as cages, tunnels, or layered types, depending on the way they include guest molecules. The geometry of the cavities limits the guest molecules by size and shape, rather than by chemical similarity with the host molecules. Among common clathrates are ***molecular sieves***, ***cyclotriphosphazenes***, and ***Dianin's compound***, as well as hydroquinone, cyclodextrins, *o*-thymotide, and deoxycholic acid, *q.q.v.* ***Cavitands*** are organic hosts with enforced (rigid) cavities: D. J. Cram, *Science* **219,** 1177 (1983); R. C. Helgeson *et al., Chem. Commun.* **1983,** 101. Comprehensive book: *Clathrate Compounds,* V. M. Bhatnagar, Ed. (Chemical Pub. Co., New York, 1970) 244 pp. *Reviews:* D. D. MacNicol *et al., Chem. Soc. Rev.* **7,** 65-87 (1978); E. C. Makin, "Clathration" in *Kirk-Othmer Encyclopedia of Chemical Technology* **Vol. 6** (Wiley-Interscience, New York, 3rd ed., 1979) pp 178-189.

USE: As complexing agent; stabilizing agent. In analytical separations.

2364. Clavulanic Acid. [58001-44-8] [2*R*-(2α,3*Z*,5α)]-3-(2-Hydroxyethylidene)-7-oxo-4-oxa-1-azabicyclo-[3.2.0]heptane-2-carboxylic acid; MM 14151. $C_8H_9NO_5$; mol wt 199.16. C 48.25%, H 4.55%, N 7.03%, O 40.17%. β-Lactamase inhibitor. Antibiotic produced by *Streptomyces clavuligerus;* first reported naturally occurring fused β-lactam containing oxygen. Isoln: M. Cole *et al.,* **DE 2517316** (1975 to Beecham), *C.A.* **84,** 72635t (1976); A. G. Brown *et al., J. Antibiot.* **29,** 668 (1976). Structure, x-ray crystallography: T. T. Howarth *et al., Chem. Commun.* **1976,** 266. Total synthesis of (±)-form: P. H. Bentley *et al., ibid.* **1977,** 748, 905; *eidem, Tetrahedron Letters* **1979,** 1889. β-Lactamase inhibition and antibacterial spectrum: C. Reading, M. Cole, *Antimicrob. Ag. Chemother.* **11,** 852 (1977). Mechanism of action: B. G. Spratt *et al., ibid.* **12,** 406 (1977). Antibacterial activity, pharmacology and clinical efficacy of combination with amoxicillin: A. P. Ball *et al., Lancet* **1,** 620 (1980); R. N. Brogden *et al., Drugs* **22,** 337-362 (1981). *In vitro* and *in vivo* synergism with ticarcillin: R. Sutherland *et al., Am J. Med.* **79,** Suppl. 5B, 13 (1985).

Hydroxypropyl-beta-cyclodextrin
CAS No:94035-02-6

Name: Hydroxypropyl-beta-cyclodextrin

Synonyms: beta-Hydroxypropylcyclodextrin
beta-Cyclodextrin, 2-hydroxypropyl ether
HPB
2-Hydroxypropyl-beta-cyclodextrin
128446-35-5

CAS Number: 94035-02-6

Molecular Formula: $C_{42}(H)_{70-n}O_{35}(C_3H_7)_n$

Melting Point: 278 °C

Safety Description: S24/25 Details

Inquire now List of Suppliers for **Hydroxypropyl-beta-cyclodextrin** Country

Onbio Inc.
Introduction:HYDROXYPROPYL-BETA-CYCLODEXTRIN
United St

Yiming Fine Chemicals Co., Ltd.
Introduction:mp : 267 °C (dec.)
China (Mair

storage temp. : 2-8°C

solubility : H2O: 45 % (w/v)

form : solution (clear, colorless)

[Hangzhou]86-571-85889139 85459303 85459719 ext.8015

Linscott's Directory of Immunological & Biological Reagents

Page 36 of 2,608 **Records 1,751 - 1,800 of 130,353**

Name	Description	Size	Catalog #	Supplier	
CKBB	Recombinant Human Creatine Kinase BB Isoenzyme	10µg, 50µg, 1mg	CKI- 268	PROSPEC-TANY TECHNOGENE LTD.	More In
Ckdk6	The RP-39008 Ckdk6 protein is a partial length (aa 1-327) bacterially expressed recombinant protein.RP-39008 is suitable for use as a control in ELISA and Western blot applications.The RP-39008 protein is GST-tagged.	10 ug	RP-39008	ABR - AFFINITY BIOREAGENTS INC.	More In
CKMM	Human Creatine Kinase MM	200µg, 1mg, 10mg	CKI- 273	PROSPEC-TANY TECHNOGENE LTD.	More In
CKS-17	Sequence: Leu-Gln-Asn-Arg-Arg-Gly-L eu-Asp-Leu-Leu-Phe-Leu-Ly s-Glu-Gly-Gly-LeuStorage and Stability: Lyophilized powder may be stored at 4?C for short-term only. Reconstitute to nominal volume by adding sterile 40-50% glycerol and store at -20?C. R...	1mg	C5818-05	UNITED STATES BIOLOGICAL	More In
CKS-17 (7-12)	Sequence: Leu-Asp-Leu-Leu-Phe-LeuSt orage and Stability: Lyophilized powder may be stored at 4?C for short-term only. Reconstitute to nominal volume by adding sterile 40-50% glycerol and store at -20?C. Reconstituted product is stable for 12 months...	25mg	C5818-05A	UNITED STATES BIOLOGICAL	More In

CKS-17	This Peptide CKS-17 is considered as the major immunosuppressive site of retroviral TM protein. It can suppress T effector cell function in vitro. It has been shown that CKS-17 causes an imbalance of human types 1 and 2 cytokines and inhibition of...	0.5 mg	06-271-83162	GENWAY BIOTECH INC.	**More In**
CKS-17	This Peptide CKS-17 is considered as the major immunosuppressive site of retroviral TM protein. It can suppress T effector cell function in vitro. It has been shown that CKS-17 causes an imbalance of human types 1 and 2 cytokines and inhibition of...	1 mg	06-271-83162	GENWAY BIOTECH INC.	**More In**
CARCINOEMBRYONIC ANTIGEN (CL)	testing/assay service	n/a	n/a	RDL REFERENCE LABORATORY INC.	**More In**
CASPASE-3/7 (CL)	n/a	n/a	n/a	PROMEGA CORPORATION	**More In**
CASPASE-8 (CL)	n/a	n/a	n/a	PROMEGA CORPORATION	**More In**
CASPASE-9 (CL)	n/a	n/a	n/a	PROMEGA CORPORATION	**More In**
CASPASE (CL)	n/a	n/a	n/a	PROMEGA CORPORATION	**More In**
CL 218872	Benzodiazepine agonist displaying selectivity for α1 subunit-containing GABAA receptors (Ki values are 130, 1820, 1530, > 10000, 490 and > 10000 nM for α1, α2, α3, α4, α5 and α6-subunit containing re...	10mg, 50mg	1709	TOCRIS BIOSCIENCE	**More In**
CL-387,785	Irreversibly inhibits EGF-receptor (EGFR) kinase activity in vivo (IC50 = 250-490 pM) as well as EGF-stimulated autophosphorylation of tyrosine residues in the EGFR in vivo (IC50 = 5 nM). Blocks EGF-mediated growth in A431 cells. Inhibits prolifer...	n/a	233100	CALBIOCHEM/EMD BIOSCIENCES	**More In**
	A selective inhibitor of MMP-13 (IC50 = 10 μM).				

CL-82198	Binds to the S1' pocket of MMP-13 with its morpholine ring adjacent to the catalytic zinc atom. Does not inhibit MMP-1, MMP-9, and TACE.	n/a	233105	CALBIOCHEM/EMD BIOSCIENCES	**More In**
Calphostin C, Cladosporium cladosporioides	A cell permeable, highly specific inhibitor of protein kinase C (IC50 = 50 nM) that interacts with the protein's regulatory domain by competing at the binding site of diacylglycerol and phorbol esters. Does not compete with Ca2+ or phospholi...	n/a	208725	CALBIOCHEM/EMD BIOSCIENCES	**More In**
Cladribine	It is a substituted purine nucleoside with antileukemic activity.Melting Point: 220-235?C dec.Solubility: Methanol, Water	50mg	C5819-75	UNITED STATES BIOLOGICAL	**More In**
Clarithromycin	A semi-synthetic macrolide antibiotic. A derivative of erythromycin.Melting Point: 217-220?C dec.Solubility: Chloroform, Ethanol	50mg	C5829	UNITED STATES BIOLOGICAL	**More In**
Clavulanic Acid	A B-Lactamase inhibitor.	10mg	C5836	UNITED STATES BIOLOGICAL	**More In**
CLIC3	The RP-39009 CLIC3 protein is a full length bacterially expressed recombinant protein.RP-39009 is suitable for use as a control in ELISA and Western blot applications.The RP-39009 amino acid sequence corresponds to the NCBI accession number NP_004...	10 ug	RP-39009	ABR - AFFINITY BIOREAGENTS INC.	**More In**
Clidinium Bromide	An anticholinergic. Used as an antispasmodic.Melting Point: 240-241?C	5g	C5840-75	UNITED STATES BIOLOGICAL	**More In**
	A metal ion chelator that crosses the blood brain barrier and acts as a neurotoxic antibiotic. Reported to dissolve				

Clioquinol	senile plaques and reduce amyloid's ability to clump together, apparently by trapping the Cu2+ and Zn2+ that stud these depos...	n/a	233165	CALBIOCHEM/EMD BIOSCIENCES	**More In**
CLK3, active	n/a	10 ug	14-724	MILLIPORE	**More In**
CLK2, active	n/a	10 ug	14-774	MILLIPORE	**More In**
Clofarabine	ISecond generation purine nucleoside analog; antimetabolite that inhibits DNA synthesis and resists deamination by adenosine deaminase. Antineoplastic.Melting Point: 225-227?C	10mg	C5843-55	UNITED STATES BIOLOGICAL	**More In**
Clofarabine	Deoxycytidine kinase (dCK) substrate. Phosphorylated to form clofarabine triphosphate, which competes with dATP for DNA polymerase- α and - ε and potently inhibits ribonucleotide reductase (IC50 = 65 nM). Induces apoptosis by directl...	10mg, 50mg	2600	TOCRIS BIOSCIENCE	**More In**
CLOFIBRATE	n/a	n/a	n/a	CAYMAN CHEMICAL CO.	**More In**
Clofibrate	PPAR agonist (EC50 values are 50, 500 and > 100 μM at PPAR α, PPAR γ and PPAR δ respectively). Antihyperlipoproteinemic.	1g	0824	TOCRIS BIOSCIENCE	**More In**
Clofibric acid	PPAR agonist. Antihyperlipoproteinemic.	1g	0825	TOCRIS BIOSCIENCE	**More In**
Clofibrate	An anti-hyperlipoproteinemic agent believed to act by inhibiting cholesterol biosynthesis. Activates PPARα and induces cytochrome P450 4A1 and 4A3. Imparts protection against acetaminophen toxicity and increases hepatic glutathione levels.	n/a	231405	CALBIOCHEM/EMD BIOSCIENCES	**More In**
Clofulbicyne	n/a	1 mg.	TXL9001-1	ACCURATE CHEMICAL & SCIENTIFIC CO.	**More In**

Clofulbicyne	n/a	5x1 mg.	TXL9001-5	ACCURATE CHEMICAL & SCIENTIFIC CO.	**More In**
Clomifene citrate	International Chemical Reference Substances are established upon the advice of the WHO Expert Committee on Specifications for Pharmaceutical Preparations. They are supplied primarily for use in physical and chemical tests and assays described in t...	100 mg	9930259	W.H.O. COLLABORATING CENTRE	**More In**
Clomiphene, Citrate	An unducer of ovulation. A gonad-stimulating principle.Melting Point: 116.5-118?CSolubility: Methanol	10g	C5843-65	UNITED STATES BIOLOGICAL	**More In**
Cloning	>1500 bp into 3 different expression vectors	n/a	PE05-0003	HYPEROMICS FARMA INC.	**More In**
Cloning	<1500 bp into 3 different expression vectors	n/a	PE05-0002	HYPEROMICS FARMA INC.	**More In**
Clopidogrel Carboxylic Acid	A metabolite of the drug Clopidogrel.Solubility: Methanol, Water	5mg	C5849-01	UNITED STATES BIOLOGICAL	**More In**
CLOSTRIPAIN Clostridium	n/a	n/a	n/a	PROMEGA CORPORATION	**More In**
Clotrimazole	An antifungal agent that acts as a potent and specific inhibitor of the Ca2+-activated K+ channel (Gardos channel; IC50 = 650 nM). Prevents K+ loss and dehydration of sickled erythrocytes.	n/a	233230	CALBIOCHEM/EMD BIOSCIENCES	**More In**
Clozapine	An antipsychotic.Melting Point: 183-184? CSolubility: Acetone, Ether	250mg	C5866	UNITED STATES BIOLOGICAL	**More In**
Clozapine	Atypical antipsychotic drug, with a much lower tendency to cause extrapyramidal side effects than conventional neuroleptics. Displays a broad range of pharmacological actions; the antipsychotic effects are thought to be mediated principally by 5-H...	50mg, 500mg	0444	TOCRIS BIOSCIENCE	**More In**

CLTB	The RP-39010 CLTB protein is a full length bacterially expressed recombinant protein.RP-39010 is suitable for use as a control in ELISA and Western blot applications.The RP-39010 amino acid sequence corresponds to the NCBI accession number NP_0018...	10 ug	RP-39010	ABR - AFFINITY BIOREAGENTS INC.	**More In**
Aldosterone-3 CMO (BSA)	The major mineralcorticoid, which is secreted almost independently of ACTH from the pitutitary, is aldosterone. Aldosterone secretion is controlled mostly by the levels of potassium and sodium in serum and a blood pressure control system called th...	5mg	A1350-04	UNITED STATES BIOLOGICAL	**More In**
Androstenedione-3 (CMO)	Androstenedione was discovered in 1935. It is naturally produced in men and women. It is a direct precursor to the hormone testosterone. The liver converts androstenedione to testosterone.Precursor:4-Androsten-3,17-dione-3Sto rage and Stability:Lyo...	10mg	A2292-02	UNITED STATES BIOLOGICAL	**More In**
CMPD-1	Non-ATP-competitive, selective inhibitor of p38 α-mediated MK2a (mitogen-activated protein kinase-activated protein kinase 2a) phosphorylation (apparent Ki = 330 nM). Does not inhibit p38 α-mediated phosphorylation of the two other kno...	10mg, 50mg	2186	TOCRIS BIOSCIENCE	**More In**
CMV	Glycine Extract	mL	0810003GE	ZEPTOMETRIX CORP.	**More In**
CMV	Cytomegalovirus (AD169) Infected Cell Extract. Used for IgG assays - Control is NHDF AV043	n/a	CV001	EASTCOAST BIO INC.	**More In**
	Cytomegalovirus				

CMV	Gradient Purified. Used for IgM assays.	n/a	CV046	EASTCOAST BIO INC.	More In
CMV	Cytomegalovirus Ag slides for FA. Made to Order	n/a	CG015	EASTCOAST BIO INC.	More In
CMV	Part Pure	n/a	J43010	BIOSPACIFIC INC.	More In

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Linscott's Directory of Immunological & Biological Reagents

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Name	Description	Size	Catalog #	Supplier	
CKBB	Recombinant Human Creatine Kinase BB Isoenzyme	10µg, 50µg, 1mg	CKI- 268	PROSPEC-TANY TECHNOGENE LTD.	More In
Ckdk6	The RP-39008 Ckdk6 protein is a partial length (aa 1-327) bacterially expressed recombinant protein.RP-39008 is suitable for use as a control in ELISA and Western blot applications.The RP-39008 protein is GST-tagged.	10 ug	RP-39008	ABR - AFFINITY BIOREAGENTS INC.	More In
CKMM	Human Creatine Kinase MM	200µg, 1mg, 10mg	CKI- 273	PROSPEC-TANY TECHNOGENE LTD.	More In
CKS-17	Sequence: Leu-Gln-Asn-Arg-Arg-Gly-L eu-Asp-Leu-Leu-Phe-Leu-Ly s-Glu-Gly-Gly-LeuStorage and Stability: Lyophilized powder may be stored at 4?C for short-term only. Reconstitute to nominal volume by adding sterile 40-50% glycerol and store at -20?C. R...	1mg	C5818-05	UNITED STATES BIOLOGICAL	More In
CKS-17 (7-12)	Sequence: Leu-Asp-Leu-Leu-Phe-LeuSt orage and Stability: Lyophilized powder may be stored at 4?C for short-term only. Reconstitute to nominal volume by adding sterile 40-50% glycerol and store at -20?C. Reconstituted product is stable for 12 months...	25mg	C5818-05A	UNITED STATES BIOLOGICAL	More In

CKS-17	This Peptide CKS-17 is considered as the major immunosuppressive site of retroviral TM protein. It can suppress T effector cell function in vitro. It has been shown that CKS-17 causes an imbalance of human types 1 and 2 cytokines and inhibition of...	0.5 mg	06-271-83162	GENWAY BIOTECH INC.	**More In**
CKS-17	This Peptide CKS-17 is considered as the major immunosuppressive site of retroviral TM protein. It can suppress T effector cell function in vitro. It has been shown that CKS-17 causes an imbalance of human types 1 and 2 cytokines and inhibition of...	1 mg	06-271-83162	GENWAY BIOTECH INC.	**More In**
CARCINOEMBRYONIC ANTIGEN (CL)	testing/assay service	n/a	n/a	RDL REFERENCE LABORATORY INC.	**More In**
CASPASE-3/7 (CL)	n/a	n/a	n/a	PROMEGA CORPORATION	**More In**
CASPASE-8 (CL)	n/a	n/a	n/a	PROMEGA CORPORATION	**More In**
CASPASE-9 (CL)	n/a	n/a	n/a	PROMEGA CORPORATION	**More In**
CASPASE (CL)	n/a	n/a	n/a	PROMEGA CORPORATION	**More In**
CL 218872	Benzodiazepine agonist displaying selectivity for α1 subunit-containing GABAA receptors (Ki values are 130, 1820, 1530, > 10000, 490 and > 10000 nM for α1, α2, α3, α4, α5 and α6-subunit containing re...	10mg, 50mg	1709	TOCRIS BIOSCIENCE	**More In**
CL-387,785	Irreversibly inhibits EGF-receptor (EGFR) kinase activity in vivo (IC50 = 250-490 pM) as well as EGF-stimulated autophosphorylation of tyrosine residues in the EGFR in vivo (IC50 = 5 nM). Blocks EGF-mediated growth in A431 cells. Inhibits prolifer...	n/a	233100	CALBIOCHEM/EMD BIOSCIENCES	**More In**
	A selective inhibitor of MMP-13 (IC50 = 10 μM).				

CL-82198	Binds to the S1' pocket of MMP-13 with its morpholine ring adjacent to the catalytic zinc atom. Does not inhibit MMP-1, MMP-9, and TACE.	n/a	233105	CALBIOCHEM/EMD BIOSCIENCES	**More In**
Calphostin C, Cladosporium cladosporioides	A cell permeable, highly specific inhibitor of protein kinase C (IC50 = 50 nM) that interacts with the protein's regulatory domain by competing at the binding site of diacylglycerol and phorbol esters. Does not compete with Ca2+ or phospholi...	n/a	208725	CALBIOCHEM/EMD BIOSCIENCES	**More In**
Cladribine	It is a substituted purine nucleoside with antileukemic activity.Melting Point: 220-235?C dec.Solubility: Methanol, Water	50mg	C5819-75	UNITED STATES BIOLOGICAL	**More In**
Clarithromycin	A semi-synthetic macrolide antibiotic. A derivative of erythromycin.Melting Point: 217-220?C dec.Solubility: Chloroform, Ethanol	50mg	C5829	UNITED STATES BIOLOGICAL	**More In**
Clavulanic Acid	A B-Lactamase inhibitor.	10mg	C5836	UNITED STATES BIOLOGICAL	**More In**
CLIC3	The RP-39009 CLIC3 protein is a full length bacterially expressed recombinant protein.RP-39009 is suitable for use as a control in ELISA and Western blot applications.The RP-39009 amino acid sequence corresponds to the NCBI accession number NP_004...	10 ug	RP-39009	ABR - AFFINITY BIOREAGENTS INC.	**More In**
Clidinium Bromide	An anticholinergic. Used as an antispasmodic.Melting Point: 240-241?C	5g	C5840-75	UNITED STATES BIOLOGICAL	**More In**
	A metal ion chelator that crosses the blood brain barrier and acts as a neurotoxic antibiotic. Reported to dissolve				

Clioquinol	senile plaques and reduce amyloid's ability to clump together, apparently by trapping the Cu2+ and Zn2+ that stud these depos...	n/a	233165	CALBIOCHEM/EMD BIOSCIENCES	**More In**
CLK3, active	n/a	10 ug	14-724	MILLIPORE	**More In**
CLK2, active	n/a	10 ug	14-774	MILLIPORE	**More In**
Clofarabine	ISecond generation purine nucleoside analog; antimetabolite that inhibits DNA synthesis and resists deamination by adenosine deaminase. Antineoplastic.Melting Point: 225-227?C	10mg	C5843-55	UNITED STATES BIOLOGICAL	**More In**
Clofarabine	Deoxycytidine kinase (dCK) substrate. Phosphorylated to form clofarabine triphosphate, which competes with dATP for DNA polymerase- α and - ε and potently inhibits ribonucleotide reductase (IC50 = 65 nM). Induces apoptosis by directl...	10mg, 50mg	2600	TOCRIS BIOSCIENCE	**More In**
CLOFIBRATE	n/a	n/a	n/a	CAYMAN CHEMICAL CO.	**More In**
Clofibrate	PPAR agonist (EC50 values are 50, 500 and > 100 μM at PPAR α, PPAR γ and PPAR δ respectively). Antihyperlipoproteinemic.	1g	0824	TOCRIS BIOSCIENCE	**More In**
Clofibric acid	PPAR agonist. Antihyperlipoproteinemic.	1g	0825	TOCRIS BIOSCIENCE	**More In**
Clofibrate	An anti-hyperlipoproteinemic agent believed to act by inhibiting cholesterol biosynthesis. Activates PPARα and induces cytochrome P450 4A1 and 4A3. Imparts protection against acetaminophen toxicity and increases hepatic glutathione levels.	n/a	231405	CALBIOCHEM/EMD BIOSCIENCES	**More In**
Clofulbicyne	n/a	1 mg.	TXL9001-1	ACCURATE CHEMICAL & SCIENTIFIC CO.	**More In**

Clofulbicyne	n/a	5x1 mg.	TXL9001-5	ACCURATE CHEMICAL & SCIENTIFIC CO.	**More In**
Clomifene citrate	International Chemical Reference Substances are established upon the advice of the WHO Expert Committee on Specifications for Pharmaceutical Preparations. They are supplied primarily for use in physical and chemical tests and assays described in t...	100 mg	9930259	W.H.O. COLLABORATING CENTRE	**More In**
Clomiphene, Citrate	An unducer of ovulation. A gonad-stimulating principle.Melting Point: 116.5-118?CSolubility: Methanol	10g	C5843-65	UNITED STATES BIOLOGICAL	**More In**
Cloning	>1500 bp into 3 different expression vectors	n/a	PE05-0003	HYPEROMICS FARMA INC.	**More In**
Cloning	<1500 bp into 3 different expression vectors	n/a	PE05-0002	HYPEROMICS FARMA INC.	**More In**
Clopidogrel Carboxylic Acid	A metabolite of the drug Clopidogrel.Solubility: Methanol, Water	5mg	C5849-01	UNITED STATES BIOLOGICAL	**More In**
CLOSTRIPAIN Clostridium	n/a	n/a	n/a	PROMEGA CORPORATION	**More In**
Clotrimazole	An antifungal agent that acts as a potent and specific inhibitor of the Ca2+-activated K+ channel (Gardos channel; IC50 = 650 nM). Prevents K+ loss and dehydration of sickled erythrocytes.	n/a	233230	CALBIOCHEM/EMD BIOSCIENCES	**More In**
Clozapine	An antipsychotic.Melting Point: 183-184? CSolubility: Acetone, Ether	250mg	C5866	UNITED STATES BIOLOGICAL	**More In**
Clozapine	Atypical antipsychotic drug, with a much lower tendency to cause extrapyramidal side effects than conventional neuroleptics. Displays a broad range of pharmacological actions; the antipsychotic effects are thought to be mediated principally by 5-H...	50mg, 500mg	0444	TOCRIS BIOSCIENCE	**More In**

CLTB	The RP-39010 CLTB protein is a full length bacterially expressed recombinant protein.RP-39010 is suitable for use as a control in ELISA and Western blot applications.The RP-39010 amino acid sequence corresponds to the NCBI accession number NP_0018...	10 ug	RP-39010	ABR - AFFINITY BIOREAGENTS INC.	**More In**
Aldosterone-3 CMO (BSA)	The major mineralcorticoid, which is secreted almost independently of ACTH from the pitutitary, is aldosterone. Aldosterone secretion is controlled mostly by the levels of potassium and sodium in serum and a blood pressure control system called th...	5mg	A1350-04	UNITED STATES BIOLOGICAL	**More In**
Androstenedione-3 (CMO)	Androstenedione was discovered in 1935. It is naturally produced in men and women. It is a direct precursor to the hormone testosterone. The liver converts androstenedione to testosterone.Precursor:4-Androsten-3,17-dione-3Sto rage and Stability:Lyo...	10mg	A2292-02	UNITED STATES BIOLOGICAL	**More In**
CMPD-1	Non-ATP-competitive, selective inhibitor of p38 α-mediated MK2a (mitogen-activated protein kinase-activated protein kinase 2a) phosphorylation (apparent Ki = 330 nM). Does not inhibit p38 α-mediated phosphorylation of the two other kno...	10mg, 50mg	2186	TOCRIS BIOSCIENCE	**More In**
CMV	Glycine Extract	mL	0810003GE	ZEPTOMETRIX CORP.	**More In**
CMV	Cytomegalovirus (AD169) Infected Cell Extract. Used for IgG assays - Control is NHDF AV043	n/a	CV001	EASTCOAST BIO INC.	**More In**
	Cytomegalovirus				

CMV	Gradient Purified. Used for IgM assays.	n/a	CV046	EASTCOAST BIO INC.	**More In**
CMV	Cytomegalovirus Ag slides for FA. Made to Order	n/a	CG015	EASTCOAST BIO INC.	**More In**
CMV	Part Pure	n/a	J43010	BIOSPACIFIC INC.	**More In**

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